

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	Unknown 10/762, 665
		Filing Date	Even Date Herewith
		First Named Inventor	Fuchs, Renate
		Group Art Unit	Unknown 1645
		Examiner Name	Unknown NAVARRO
Sheet 1 of 3		Attorney Docket No: 738.001US5	

US PATENT DOCUMENTS						
Examiner Initials*	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
~	US-4,888,276	12/01/1989	Shelburne,	435	7	
~	US-5,620,862	04/15/1997	Padula, S.	435	7.32	11/24/1993

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
~		<u>Antibodies, A Laboratory Manual</u> , Harlow and Lane (ed),(1988),342, 343, 560-562, 5				
		"Determination of serum and cerebrospinal fluid IgG and IgM antibodies to the Borrelia burgdorferi flagellum", Lyme Borreliosis ELISA Kit, Code No. K 416,10 Pages	<u>NO PUBLIC AVAILABILITY DATE</u>			
~		BARBOUR, ALAN , et al., "Lyme Disease Spirochetes and Ixodid Tick Spirochetes Share a Common Surface Antigenic Determinant Defined by a Monoclonal Antibody", <u>Infection and Immunity</u> , 41, (Aug. 1983),795-804				
~		BARBOUR, A. , "Plasmid Analysis of Borrelia Burgdorferi, the Lyme Disease Agent", <u>Journal of Clinical Microbiology</u> , 26, (March 1988),475-478				
~		BERZOFSKY, JAY , "Intrinsic and Extrinsic Factors in Protein Antigenic Structure", <u>Science</u> , 229, (1985),932-940				
~		BOWIE, et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", <u>Science</u> , 247, (March 1990),1306-1310				
~		COLEMAN, JAMES L., et al., "Identification and Characterization of an Endoflagellar Antigen of Borrelia burgdorferi", <u>The American Society for Clinical Investigation, Inc.</u> , The State of New York Department of Health, Vol. 84,(July, 1989),322-330				
~		FUCHS, R. , et al., "Molecular analysis and expression of a Borrelia burgdorferi gene encoding a 22kDa protein (pC) in Escherichia coli", <u>Molecular Microbiology</u> 6 (4), (1992),503-509				
~		GABMANN, G.S. , et al., "N-terminal amino acid sequence of the Borrelia burgdorferi flagellin", <u>FEMS Microbiology Letters</u> 60, Federation of European Microbiological Societies FEM 03611,(1989),101-105				
~		GAESMANN, G. , et al., "Nucleotide Sequence of a Gene Encoding the Borrelia burgdorferi flagellin", <u>Nucleic Acids Research</u> , 17, (1989),3590				
~		HANSEN, K , et al., "Measurement of Antibodies to the Borrelia burgdorferi Flagellum Improves Serodiagnosis in Lyme Disease", <u>Journal of Clinical Microbiology</u> , 26, (Feb. 1988),338-346				
~		HARLOW, ED , et al., "Antibodies - A Laboratory Manual", <u>Cold Spring Harbor Laboratory</u> , (1988),553 -612				

EXAMINER MARK NAVARRO DATE CONSIDERED 2/3/05

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	Unknown - 10/762, 665
		Filing Date	Even Date Herewith
		First Named Inventor	Fuchs, Renate
		Group Art Unit	Unknown - 1645
		Examiner Name	Unknown NAVARRO
Sheet 2 of 3		Attorney Docket No: 738.001US5	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
~		HINNEBUSCH, J. , et al., "Linear- and Circular-Plasmid Copy Numbers in <i>Borrelia Burgdorferi</i> ", <u>Journal of Bacteriology</u> , 174, (Aug. 1992),5251-5257	
~		HOPP, et al., "Prediction of Protein Antigenic Determinants from Amino Acid Sequences", <u>Proceedings of National Academy of Sciences, USA</u> 78, (1981),3824-3828	
~		HYDE, F , et al., "Detection of Antigens in Urine of Mice and Humans Infected with <i>Borrelia burgdorferi</i> , Etiologic Agent of Lyme Disease", <u>Journal of Clinical Microbiology</u> , 27, (1989),58-61	
~		KUMAR, et al., <u>PNAS</u> , 87, (Feb. 1990),1337-1341	
~		LEE, CHENG C., et al., "Generation of cDNA Probes Directed by Amino Acid Sequence: Cloning of Urate Oxidase", <u>Science</u> , Vol. 239, (March, 1988),1288-1291	
~		LUFT, BENJAMIN J., et al., "Biochemical and Immunological Characterization of the Surface Proteins of <i>Borrelia burgdorferi</i> ", <u>Infection and Immunity</u> , Department of Medicine, State University of New York at Stony Brook, Vol. 57, No. 11,(November, 1989),3637-3645	
~		PALLESEN, LARS , et al., "Cloning and Sequencing of a <i>Treponema pallidum</i> Gene Encoding a 31.3-Kilodalton Endoflagellar Subunit (FlaB2)", <u>American Society of Microbiology</u> , Vol. 57, No. 7,(July, 1989),2166-2172	
~		PENNELL, et al., "An Indirect Quantitative Fluorescence Immunoassay for the Detection of Lyme Disease Serum Antibody", <u>Annals of the NY Academy of Sciences</u> , 539, (1988),483-484	
~		PLOTKIN, S. , et al., <u>In: Vaccines</u> , W.B. Saunders Company, Philadelphia, PA,(1988),p. 571	
~		PREAC-MURSIC, V. , et al., "Active Immunization with pC Protein of <i>Borrelia burgdorferi</i> Protects Gerbils against <i>B. burgdorferi</i> Infection", <u>MMV Medizin Verlag GmbH Munchen</u> , Munchen, (1992),342-349	
~		PREAC-MURSIC, V , et al., "European <i>Borrelia burgdorferi</i> Isolated from Humans and Ticks- Culture Conditions and Antibiotic Susceptibility", <u>Zbl. Bakt. Hyg.</u> , A263, (1986),112-118	
~		SADZIENE, ARIADNA , et al., "The Cryptic ospC Gene of <i>Borrelia burgdorferi</i> B31 is located on a circular plasmid", <u>Infection and Immunity</u> , 61, 5, (1993),2192-2195	
~		SAMBROOK, J. , et al., "Molecular Cloning", <u>A Laboratory Manual</u> , Second Addition, Cold Spring Harbor Laboratory Press, 14 - In Vitro Amplification of DNA by the Polymerase Chain Reaction,(1989),5 Pages	
~		SIMON, et al., "Recombinant Outer Surface Protein A from <i>Borrelia burgdorferi</i> Induces Antibodies Protective against pirochetal Infection in Mice", <u>Journal of Infectious Diseases</u> , 164, (July 1991),123-132	
~		STERN, PETER , "Predicting Antigenic Sites on Proteins", <u>TIBTECH</u> , 9, (May, 1991),163-167	

EXAMINER MARK NAVARRO DATE CONSIDERED 2/3/05

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		<i>Complete if Known</i>	
		Application Number	Unknown 10/762,665
		Filing Date	Even Date Herewith
		First Name Inventor	Fuchs, Renate
		Group Art Unit	Unknown 1645
		Examiner Name	Unknown NAVARRO
Sheet 3 of 3		Attorney Docket No: 738.001US5	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
~		WALLICH, R , et al., "Cloning and Sequencing of the Gene Encoding the Outer Surface Protein A (OspA) of a European Borrelia burgdorferi isolate", <u>Nucleic Acids Research</u> , 17, (Nov. 1989),8864	
~		WALLICH, REINHARD , et al., "The Borrelia burgdorferi Flagellum-Associated 41-Kilodalton Antigen (Flagellin): Molecular Cloning, Expression, and Amplification of the Gene", <u>Infection and Immunity</u> , American Society of for Microbiology,(June, 1990),1711-1719	
~		WILSKE, et al., "Antigenic Variability of Borrelia burgdorferi", <u>Annals of the New York Academy of Sciences</u> , 539, (Aug. 1988),126-143	
~		WILSKE, BETTINA , et al., "Detection of IgM-and IgG Antibodies to Borrelia burgdorferi Using Different Strains as Antigen", Stanek (Ed). <u>Lyme Borreliosis II</u> , Zbl. Bakt Suppl. 18 Gustav Fischer, Stuttgart, New York, (1989),5 Pages	
~		WILSKE, et al., "Immunochemical Analysis of the Immune Response in Late Manifestations of Lyme Borreliosis", <u>Zbl. Bakt. Hyg. A</u> 267, (1988),549-558	
~		WILSKE, et al., "Immunochemical and Immunological Analysis of European Borrelia burgdorferi Strains", <u>International Journal of Microbiology and Hygiene</u> , 263, Series A,(1986),92-102	
~		YOUNG, et al., "Efficient Isolation of Genes by Using Antibody Probes", <u>Proceedings of National Academy of Sciences, USA</u> 80, (1983),1194-1198	

EXAMINER MARIE NAVARRO DATE CONSIDERED 2/3/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

1/22/04

S/N Unknown

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Renate Fuchs et al.	Examiner:	Unknown
Serial No.:	Unknown	Group Art Unit:	Unknown
Filed:	Herewith	Docket:	738.001US5
Title:	IMMUNOLOGICALLY ACTIVE PROTEINS FROM BORRELIA BURGDORFERI		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. §1.98(d), copies of the listed documents are not provided as these references were previously cited by or submitted to the U.S. Patent Office in connection with Applicants' prior U.S. application, Serial No. 10/289795, filed on November 07, 2002, which is relied upon for an earlier filing date under 35 U.S.C. §120.

INFORMATION DISCLOSURE STATEMENT

Serial No.: Unknown

Filing Date: Herewith

Title: IMMUNOLOGICALLY ACTIVE PROTEINS FROM BORRELIA BURGDORFERI

Page 2
Dkt: 738.001USS

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

RENATE FUCHS ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 371-2106

Date 22 January 2004

By Katharine A Jackson Huebsch
Katharine A Jackson Huebsch
Reg. No. 47,670

"Express Mail" mailing label number: EV332581305US

Date of Deposit: January 22, 2004

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450